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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09.944,478	08/31/2001	Tyler A. Lowrey	INTO-0006-US (P12499)	1547
75	90 04 09 2003			
Timothy N. Trop TROP, PRRUNER & HU, P.C. STE 100			EXAMINER	
			QUACH, TUAN N	
8554 KATY FW HOUSTON, TX	: -		ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 04/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/944,478	LOWREY, TYLER A.				
		Examiner	Art Unit				
		Tuan Quach	2814				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1)	Responsive to communication(s) filed on 28 A	August 2002 .					
2a) 🗌	This action is FINAL . 2b)⊠ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
<u> </u>	Claim(s) 1-30 is/are pending in the application	l.					
ŕ	4a) Of the above claim(s) <u>11-30</u> is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
· · · ·	Claim(s) <u>1-10</u> is/are rejected.						
	Claim(s) is/are objected to.						
·	Claim(s) are subject to restriction and/o	r election requirement.					
•	ion Papers	·					
9) 🗌	The specification is objected to by the Examine	r.					
10) 🗌	The drawing(s) filed on is/are: a)☐ accep	oted or b) objected to by the Exa	miner.				
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).				
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) ☐ The oath or declaration is objected to by the Examiner.							
Priority (under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
* (3. Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	-				
14) 🗌 A	Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119(e) (to a provisional application).				
) The translation of the foreign language pro Acknowledgment is made of a claim for domest	• •					
Attachmen	•	, ,					
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1 last two lines, the formation of the phase change material is vague with regard to the electrical connection as the positional relationship between the two cannot be determined from the claim. The invention requires the phase change material to be formed on the electrical connection as shown in Figs. 1 and 2I.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ovshinky et al. (Ovshinsky).

Ovshinsky teaches forming region 24, forming insulating layer 20, forming layers 32/34, forming the memory layer 36 which corresponds to the phase change material. See column 11 line 34 to column 13 line 30. The layer 24 functions as a contact would have been apparent as shown in column 12 line 1-3, or alternatively, it would have been obvious to one skilled in the art that the region such base contact would have been obvious and apparent over the corresponding region 24 and electrical connection thereto including the phase change material as shown in Ovshinsky. The cup shaped connection would have been apparent or otherwise obvious as shown in Fig. 1.

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Claims 6-10 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and incorporating a recitation of the positional relationship discussed above regarding claim 1. The filling of the cup shaped electrical connection with an insulator in the context of claims 6-10 is not shown in the prior art.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Harshfield, Dennison, Gonzalez et al., Zahorik, and Wolstentholme et al. are cited of interest.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Quach whose telephone number is 703-308-1096. The examiner can normally be reached on M - F from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Wael Fahmy can be reached on (703) 308-4918. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9318 (Before Final) and (703) 872-9319 (After Final).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

-th